

SITE INSPECTION REPORT MARCH POINT LANDFILL ANACORTES, WASHINGTON

MARCH, 1986



HAZARDOUS WASTE CLEANUP PROGRAM

PRELIMINARY ASSESSMENT/SITE INSPECTION SECTION

State of Washington

Booth Gardner
Governor

PREPARED BY SUZANNE E. MILHAM

Department of Ecology

SEPA	POTENTIAL	HAZARDOUS WA				GION SITE		38944
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SITE INSPECTION REPORT

SKAGIT COUNTY - MARCH POINT LANDFILL ANACORTES, WASHINGTON

WAD980638944

Report Prepared by:

Suzanne E. Milham Washington State Department of Ecology
Preliminary Assessment/Site Inspection Section
Hazardous Waste Cleanup Program

March 1986

SITE NAME/LOCATION

Skagit County March Point Landfill, WAD980638944, north of Highway 20, 500 feet east of March Point Road, Anacortes, Washington.

Northeast 1/4, Section 3, Township 34 north, Range 2 east, Willamette Meridian.

Latitude: 48/30/06.0; Longitude: 122/36/360

INVESTIGATION PARTICIPANTS

Suzanne E. Milham Washington State Department of Ecology

Hazardous Waste Cleanup Program

(206) 459-6319

Ned C. Therien Washington State Department of Ecology

Hazardous Waste Cleanup Program (no longer working for Ecology)

PRINCIPAL SITE CONTACTS

Jay Andrews Washington State Department of Natural Resources

(206) 753-5327

Skagit County (206) 336-9400

Public Works

DATE OF INVESTIGATION AND SAMPLING

December 11, 1985

INTRODUCTION

The Skagit County, March Point Landfill (hereinafter called the landfill) has been identified from preliminary assessment screening as requiring further investigations by the U.S. Environmental Protection Agency (EPA) Region X and the Washington State Department of Ecology (Ecology). This site was scheduled for an inspection to gather additional information to accurately profile the nature and extent of past waste disposal activity. This site inspection was carried out under the Superfund Multi-Site Cooperative Agreement, Preliminary Assessment/Site Inspection (PA/SI) program. This report summarizes the results of this inspection.

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1.0 SITE OWNER/OPERATOR

The Skagit County March Point Landfill is owned by the Washington State Department of Natural Resources. It was used from the 1950's as an uncontrolled public dump, and was operated by the Skagit County Public Works Department from 1961-1973.

2.0 SITE HISTORY AND BACKGROUND

The site was used from the 1950's until 1973 as a public dump. It is unknown what waste types and quantities other than municipal wastes were buried there. There are four major chemical and oil industries located on March Point. These industries have been in operation as long as the landfill has been in existence. The Texaco Company is known to have dumped unknown substances at this landfill. Because this landfill was unregulated for ten years and not strictly regulated for the years after that, it is suspected that industrial waste may have been disposed of there.

3.0 ENVIRONMENTAL SETTING

The landfill is located in a rural area with industrial development to the north and west. The Shell and Texaco refineries, Allied Chemical Sulfuric Acid Plant and Northwest Petrochemical Company are all located on March Point within two miles. The landfill is located at the base of a bluff in the tidelands area of Padilla Bay. The landfill has been covered with 2-3 feet of soil and has revegetated naturally with alders and grass. There is a dike built on the seaward north side and leachate can be seen flowing out of the landfill there. The site is bounded by Highway 20 on the south side. There is a small stream which runs along the southwest side of the landfill. The Swinomish Indian Reservation bounds the site on the east side.

3.1 Climate

The climate of Anacortes is somewhat moderated by its proximity to the waters of Puget Sound. The mean annual precipitation for the Anacortes area is approximately 27 inches. The maximum 2-year, 24 hour rainfall is approximately 2 inches. In August 1984, the daily maximum temperature was approximately 84°F and in December 1984, the lowest average temperature was 18°F.

3.2 Geology and Hydrology

This site is a filled-in area at the bottom of a bluff which lies in the tidelands of Padilla Bay. Soils are exposed glacial outwash consisting of highly permeable sands and gravels. This gravel bearing strata can be clearly seen in the barrow pit approximately 40 feet to the southwest at the Concrete N.W. Company. Shallow groundwater can also be seen in this barrow pit and is estimated to be at a depth of 10 feet.

A well log from the USGS well located 2,500 feet upgradient to the south indicates a deeper aquifer located at 75-80 feet deep. There is tidal incursion to the landfill along Padilla Bay which mixes with leachates at high tide, the mean range of the tide is 1.6 meters.

3.3 Topography and Drainage

The landfill lies in the tidelands of Padilla Bay on the southwest side of March Point at approximately 100 foot elevation. There is a marked rise in elevation inland to the south. At a distance of 6000 feet the elevation rises to 240 feet. Drainage flows down this slope towards Padilla Bay and the landfill. The landfill itself lies in a flat area which also drains to the Bay.

3.4 Groundwater and Surface Water Uses

The nearest well is 2,500 feet upgradient to the south and is owned by the USGS. There are two Skagit County Public Utilities District secondary wells within one mile upgradient and to the west. Approximately 10,000 people in a 4 mile radius utilize groundwater for drinking. Groundwater flows towards Padilla Bay in a northerly direction.

There is a small stream which runs along the southeast side of the landfill. There is no known use of this stream for recreation or drinking water. This stream is of a blackish nature being influenced by tidal incursion from Padilla Bay. Padilla Bay is used for fishing, recreation and is a National Estuary Reserve.

4.0 METHODS

The inspection began at 11:00 a.m. on December 10, 1985. The weather was sunny and 35°F; there was ice on the water and the ground was frozen. We met with Ken Willis of the Skagit County Health Department at the landfill and proceeded to tour the site and discuss its parameters and history.

Ken related how the landfill was not very well regulated and that a private citizen lived there who had a contract with the county for salvage rights but didn't regulate waste or collect fees. Ken said that he remembered one instance in which vanadium catalysts in a powdered form were dumped at the landfill. Ken also said that this site was originally a burning dump. He estimated that there was 2-3 feet of clean cover dirt over the wastes which had been buried.

A preliminary site sampling plan was developed prior to going on-site and is contained in Appendix D. After walking over the site and discussing its history, sampling locations were determined. The locations and methods of the sampling plan are described in the following text.

Water sample NCT091 was taken from the barrow pit across the street 40 feet to the southwest of the landfill. Permission was obtained from the property owners, the NW Concrete Company, for site access. The water in this pit is believed to be representative of upgradient groundwater. There was a layer of ice approximately one inch thick on the surface of the water. A hole was present in the ice which had been caused by cracking and shifting. A glass sample jar was placed in a holster of fishing line and then cast and dipped in the water of the barrow pit through the crack in the ice. Water was bailed in this manner until all sample bottles had been adequately filled.

Water sample NCT092 was taken from an estuarial stream on the southeast edge of the landfill. There was also ice in this location which was broken using a shovel. Samples were collected by dipping jars in the water.

Sample NCT093 was also taken from the sediments at this location. The sediments consisted of 3 inches of black smelly organic matter underlain by grey clay. Sediments were collected using a stainless steel trier with a 1" wide tube on the end. Sediments were not frozen. The pH of this stream was sampled with pH paper and appeared close to 7.

Sample NCT094 was taken from the nearshore Padilla Bay waters at high tide on the northeast side of the landfill. There was an apparent oily film on the water, and there was no ice present on the waters of the bay.

Sample NCT095 was taken of leachate/seepage coming through the dike along Padilla Bay on the northeast side of the landfill. A duplicate was made of this sample.

Sample NCT096 was taken from the nearshore marine sediments in this same location on the northeast side of the landfill. There was an apparent orange, rust-like top layer present along the shoreline sediments. There was also assorted rubble which could be seen under water offshore.

5.0 ANALYTICAL PARAMETERS

Water samples NCT091, NCT092, NCT094, NCT095 were analyzed by Lauck's Laboratory for volatile organics and EPA priority pollutants. Sample NCT095 was duplicated and sent blind to the lab as was a laboratory prepared transport blank. These samples were also analyzed for dissolved priority pollutant metals and total phenols by the Manchester Environmental Laboratory.

Sediment samples NCT093 and NCT096 were analyzed at Lauck's Laboratory for priority pollutant acid base neutral organics and purgeable volatile organics (VOAs).

5.1 Quality Control/Quality Assurance of Sample Collection

Stringent quality control and assurance procedures for sample collection were developed in conjunction with the EPA Site Inspection Sampling Guidelines, and training course literature. These procedures are also discussed in detail in the sampling and safety plans which were developed for this site prior to performing the actual inspection (see Appendices D and E). Procedures for documentation, chain of custody, decontamination of samples and personnel, safety, and labeling are included in these plans.

Blind duplicates were made from one sample for each parameter analyzed. The laboratory was not notified which samples were the duplicates. Transfer and transport blanks were prepared by the laboratory and maintained a analyzed for each parameter sampled.

5.2 Laboratory and Data Quality Control/Quality Assurance

The laboratories which performed the sample analysis practiced strict quality control and assurance per EPA standards.

Lauck's Laboratory supplied a surrogate recovery report contained in Appendix A. Surrogate (chemically similar) compounds were utilized in the analysis of volatile organics. Surrogates were added to each sample prior to extraction and analysis to monitor for matrix effects, purging efficiency and sample processing errors. The control limits used by Lauck's represent the 95 percent confidence interval established by their laboratory through repetitive analysis of these sample types.

The Manchester Laboratory used similar quality control and assurance procedures.

All laboratory sample analyses results were reviewed for consistency and accuracy by each member of the PA/SI team and at least one organic chemist before inclusion to this report.

6.0 RESULTS AND DISCUSSION

Phenolics

The results of the phenols analysis showed no contamination in any of the samples analyzed, when compared to the background sample taken from the barrow pit.

Metals

There were slight elevations of zinc and nickel in the offshore marine water sample and estuary stream water sample NCT092 and NCT094, respectively, when compared to the background fresh water sample taken from the barrow pit. These elevations are due to the marine nature of these samples and the natural constituents of sea water. There were also slight elevation of arsenic, selenium and telurium in water sample NCT094 taken from nearshore in Padilla Bay.

These slightly increased levels are also believed to be due to the marine nature of these samples. These levels are slightly above the national primary drinking water standards which have been set for fresh water.

Arsenic was found at 126 ppb in the estuary stream sediments sample NCT096. A concentration of this amount is not excessive when found in soils although it is greater than the amount found in the offshore sediment samples (1 ppb). Ten times the national primary drinking water standard level for arsenic would be 500 parts per billion. This is the amount which has been used to determine limits for soil contamination by Ecology.

Overall, the quantities of metals found in the samples do not represent hazardous elevations.

Volatile Organics

Acetone was found in both sediment samples NCT093 and NCT096 at 570 and 1100 ppb, respectively. Methylene chloride was also found in these samples at 581 and 3200 ppb, respectively. Acetone and methylene chloride are common laboratory contaminants. Since there were traces of both compounds found in the transport blanks, it can be assumed that the contamination originated from the laboratory. Slight amounts of toluene, 51 ppb and fluoranthene 50 ppb were found in the nearshore sediment sample NCT096. These compounds were not found in the transport blank or any other sample and may likely have come from the landfill or from spills of fuel or other sources along Padilla Bay.

Acid Base Neutral Extractables

There were no acid base neutral extractable compounds detected in any of the samples analyzed.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Because of the slight amounts of contamination detected and the inconsistency of contaminant presence in the samples, It can't be determined if this slight contamination has resulted directly from the landfill contents or other non-point sources in the area (such as fuel spills).

The presence of flouranthene and toluene are not unexpected in the offshore marine sediment samples for such a highly industrialized area. If this contamination had been detected in the leachate samples, contamination could have been directly linked to the landfill contents.

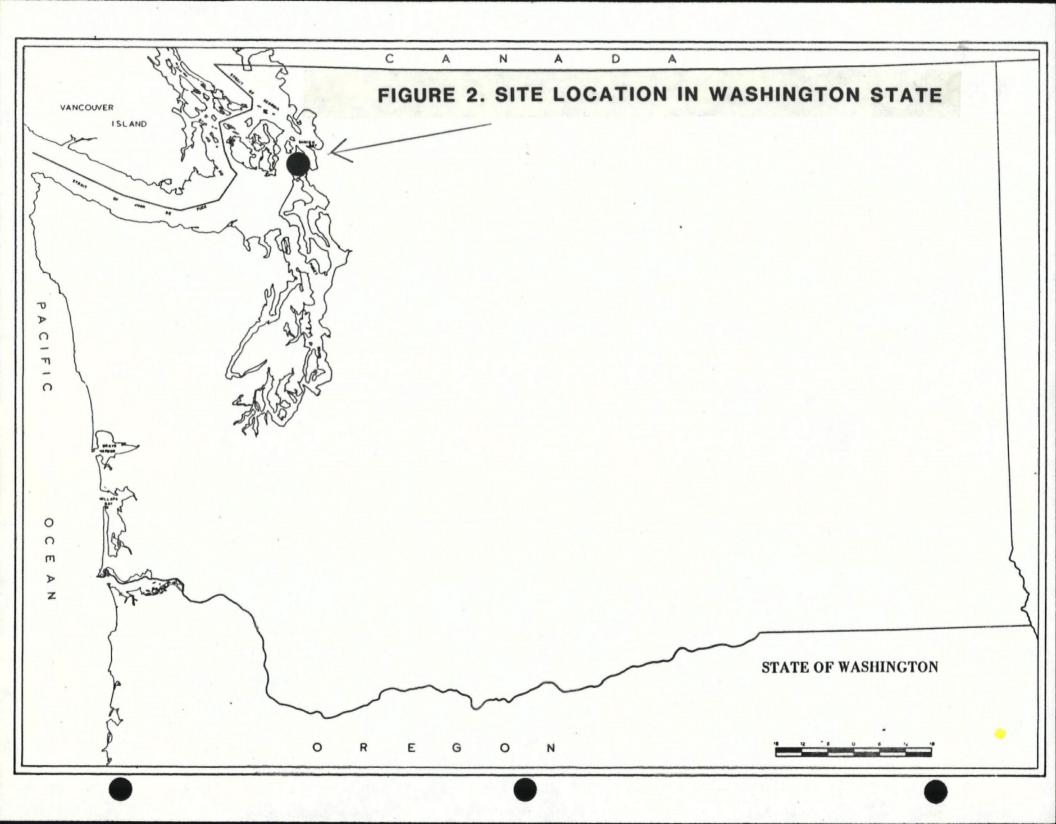
The sampling data do not show a significant problem at this landfill to warrant further sampling or remedial actions. There is no conclusive indication that hazardous materials are leaching from this landfill into Padilla Bay or its surrounding estuarial area. It is recommended that no further hazardous waste sampling or remedial actions be required at this site.

8.0 REFERENCES

- 1) Texaco, in an EPA 103(c) notification calls this site their "off-site number 2" disposal site.
- 2) Climatological Data Annual Summary, Washington 1984. Vol 88, #31, National Oceanic Atmospheric Administration.
- 3) Anacortes, Washington, NE/4 Deception pass 15' quadrangle 1978.
- 4) US EPA 1984 Preliminary Assessment of March Point Landfill, Anacortes, Washington.

9.0 FIGURES AND TABLES

ANACORTES SOUTH QUADRANGLE WASHINGTON 7.5 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC) NE/4 DECEPTION PASS 15' QUADRANGLE 122°30' 32'30" 48°30′ © Light 0 550 000 FEET 5371 5370 ROAD FIGURE SAMPLING LOCATIONS 5369 Towers 1 Iron stained leachate, samples NCT094 NCT095 Whitmarsh NCT096 5368 Junction CONVERSION SCALES NCTO91 Bridge 14000-NCTO92 27'30" 5367 13000 RES SWINOMISH BDY IND 3500 INTERSTATE 11 - 3000 10 8 MI. RESERVATION 8 2500 1 7000 -- 2000 6000 -- 13 15 5000 -- 1500



APPENDIX A

Sample Analysis Results/Correspondence/Historical Data

Project Code: 868 Account:

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FIELD SAMP DATA AND CHAIN OF CUSTODY SHEET

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at Ecology	☑ Enforcement/Custody	Samplers	· Mart Marco
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Name/Location: March Point bandfill, Skapt Count. Project Officer: Ned Thurson SAN 585-6352		duel provide Polledant heavy metals (1/2) and for Phenols Recorder:	(Signatures Required)
SOON WATRIX #CONTAINERS LAB NUMBER YOU WATRIX #CONTAINERS LAB NUMBER	STATION DATE NUMBER	ENDING DATE	STATION ESCRIPTION
SO	Yr Mo Dy Time	Mo Dy Time Freq	1 . 11. 4

	WATNIA	& PRESERV.	NUMBER	NUMBER	1		DESCRIPTION
SOURCE	ter diment sue	Unpress H ₂ SO ₄ HNO ₃				ENDING DATE	
တ္တလ	Water Sedim Tissue		Yr Wk Seq		Yr Mo Dy Time	Mo Dy Time → Freq	
1/		1 1		WK T 091	851211		worker from estuncial stream at swedge I hadted
17		11		WCT072	851211		water from estuarial stream at swedge I harth !
1/		1 1		WCT094	351211		make from near share of esting and of head
$\frac{3}{2}$		111		WC T075	851211		make Com ropage Here is a few or the
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	١	NUN	B BER		DEP		S) a	COL MTI CD	ol (QA		TEN DE C	pН		CTV io/ci		MISCELLANEOUS	CHAIN OF CUSTODY RECORD				
Yr	V	٧k	Sec	1					1						 			RELINQUISHED BY:(Signature)	RECE	IVED BY:(Signature)	DATE	/TIME
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						ľ	1											RELINQUISHED BY: (Signature)		IVED BY: (Signature)	DATE	TIME
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																		RELINQUISHED BY:(Signature)	RECE	IVED BY:(Signature)	DATE	TIME
	1	T									П						,					L
							1											RELINQUISHED BY:(Signature) REC'V'D BY MOBILE LAB FOR FIELD ANAL.: (Signature)			DATE	TIME
	_	11		\perp	_	\perp	_ _		4	_	_			_ _	_			DISPATCHED BY: (Signature) DATE/TIME RECEIVED FO	RECEIVED FOR LAB BY:/S	Signature) DATE	/TIME	
				\perp												ot						
-	_			-						_ -			\perp			_		METHOD OF SHIPMENT				J

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Project Officer Copy Yellow

Field or Office Copy Pink

State of	
Washington	
Department	(對」館)
of Ecology	

Washingto					'	FIELD SAMPE	Z D	ATA	A A	ND CH	MIAI	I OF	CUS	TODY	SHEET		
Ogranina of Ecolog		:				☑ Enforcem	nent/	Cust	ody							Samplers:	Ned Therien
Projec	ct Code:	<u> 268 </u>	ccour	nt:		Dossible	Toxi	c/Ha	zardo	ous Not	es:	plea	31 11 1	Agra	for -		Surance Milhan
		Munch Par	1 L.		11. Skayit	County 🗆 Data Cor	nfide	ntial			<u> - </u>) T:	31.7.7	Met	Als Commite	ahira,	
Projec	ct Officer:	Ned Ther	in	50,	1N 585	<u>- 635</u> 2. □ Data for	Stor	et			×				<u> </u>	Recorder:	(Signatures Required)
SOURCE	Water Sediment Tissue Oil	#CONTAINERS #PRESERV. HNO3 HNO3			AB MBER	STATION NUMBER	Yr		DATE		E		G DATE	9 0	q		STATION SCRIPTION
40	, X					NCT093	8 5,	12	1 1						sediment +	From bottom of	tstuarial stream of Swedge of

SOURC	Vater	Sedime	issue	=	Unpres	1,50 <u>7</u>	2			-	Yr	Τ,	Wi	, T		Se											Ļ	· Yr		 Vlo	T 1	 Dy	1	Tir	me	_	М	ΛŢ	Dy	,		ime		Type	F,	en	
40		X		+		+	+	╁	+	+	T	+	T	+	Т		1	┪			M	6	T	0	9	3	╀╌	15,	┿	2	1	T/	╁			1		+	7	+	Ť	T	Ī	-	 		
40					j													1			M				•	•		5		2	1	1															sediment from bottom of estuarial stream at Stredge sectionent from nearshow of estuary east of land
- -	_					\perp	_	_	_	1	1	1	-	\downarrow	_	_	4	_	_			_	_		<u> </u>	_		-	_	1	1	-	╁			_			4	_		-	1		ļ	-	/
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	1		AB 1BER		DEPTI	H s	N	OL ITD CD	DA DDE	C	EMP DEG C	þ	Н		VTY cm	MISCELLANEOUS	RELINQUISHED BY:(Signature) RECEIVED BY:(Signature)		ODY RECORD		
Yr	1	Wk	Se	eq		Onii	À														TIME
																	Hade Marie	1.00	. " Hallam Mill	\$	
						Ш											RELINQUISHED BY:(Signature)	RECEIV	ED BY: (Signature)	DATE	TIME
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						П											RELINQUISHED BY:(Signature)		ED BY:(Signature)	DATE	TIME
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	\perp	,					\bot		 								DISPATCHED BY: (Signature) DAT	E/TIME	RECEIVED FOR LAB BY: (Signal	ΩΑΤΙ	F/TIME
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	-									-			-	-			METHOD OF SHIPMENT		1		J

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Project Officer Copy Field or Office Cupy Yellow Pink

State of Washington
Department of Ecology

ENVIRONMENTAL LABORATORY **DATA SUMMARY**

PAGE	of <u>4</u>
ORIGINAL	TO: LAB FILES
COPIES TO	ír .
$5u^2$	Anne Milher

				METAI	LS				LANK.	
SOURCE March				-		M NUMBEI		868		
DATE COLLECTED	1-22-8						Ned	Therien		
Sample (Log) Number	Units	Standard Deviation	517129 NCT	5/7120	5/7/31	5/7/31				
Station:		± %	NCT 091	NCT 092	NCT 094	NCT 095				
Cu Dissolved	ug/L		7	11	2	1				
	0									
(In Dissolved	ua/L		<1	32	3	22				
1	0						<u> </u>			<u> </u>
Fe										
(Ni) Dissolved	ug/L		5	100	40	6				
	10									
(Cr) Dissolved	Mg/L		41	41	. < 1	<1				
	10									
(a) Dissolved	ug/L		<0.2	40.2	6.2	40.2				
·	10									
Pb Dissolved	ugle		<1	<1	< 1	<1				
330140	10									
Mn										
(Sb) Dissolved	un/L		<1	<1	<1	۷١				
VISSOITE	10								1	

NOTE: Dissolved Metals: Those that will pass through a 0.45 μ membrane filter Suspended Metals: Those retained by a 0.45 μ membrane filter Total Metals: Those found in the unfiltered, rigorously acid digested sample

 $mg/kg = ppm \cdot \mu g/gm$

(0.1

¿0.1

 $\mu g/kg = ppb = ng/gm$

14.2

<" is "less than" and " \nearrow " is "greater than"

mg/L= ppm = /ug/ml /ug/L= ppb = ng/ml

SUMMARIZED BY

ECY 040-2-32 (a) Rev. 8/81

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State of Washington
Department of Ecology

ENVIRONMENTAL LABORATORY DATA SUMMARY METAIS

ORIGINAL TO: LAB FILES
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1926

				E I 7 I Z	~						
SOURCE March	Poin	Land	Lill		PROGRA	м пимве	R	868	···		
DATE COLLECTED 11	-12-8				COLLEC	TED BY _	Ned	Ther	ien		_
Sample (Log) Number	Units	Standard Deviation ± %	51 7129 NCT	7130	51 ₇₁₃₁	517132 NCT					
Station:		± 76	091	NCT 092	094	095					
(Hg) Dissolved	ugl		0.06	0.06	40,06	40,06					
	0										
As Dissolved	ug. L		5	<1	74	2					
	<i>0</i>				ļ						
Se Dissolved	ug/L		2	<1	62	5					
Ba											
Da											
Ag Dissolved	سي/		<0.1	<0.1	<c.1< td=""><td><0.1</td><td></td><td></td><td></td><td></td><td></td></c.1<>	<0.1					
	0										
Na											
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К											
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Ca				 				 		<u> </u>	
	ļ.,	 	 					····		 	-
(Te) Dissolved	puil L	-	1	< 1	24	3				 	
		-		-		-				 	
NOTE: Dissolved Mer Suspended M Total Metals: mg/L= ppm = mg/kg = ppm µg/L= ppb = µg/kg = ppb =	etals: T T :	Those that withose retaine Those found	d by a 0.4 in the unf	5 μ memlitered, rig	orane filte orously ac ess than" a	r id digested s and " >v is	greater th		ATE <u>3/</u>	18/86	I <u>.</u> ,,
ECY 040-2-32 (c) Rev. 8/81				RE	VIEWED	ED BY	n Cir	ey o	ATE 3/	18/86	_

State of Washington Department of Ecology

ENVIRONMENTAL LABORATORY DATA SUMMARY METALS

PAGE 3 OF 4
ORIGINAL TO: LAB FILES
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SOURCE March	Poi	nt La	nd fil	l	PROGRA	м пимвег	R	68		
DATE COLLECTED	1-22-	85 REC	EIVED 12	17-85	COLLEC	TED BY	Ned	The	rien	
Sample (Log) Number	Units	Standard Deviation	517133	517134 Net						
Station:		± %	NCT 193	NCT 096						
Cu										
				<u> </u>						
Zn										
										
Fe										
	 									
Ni	<u> </u>	ļ		<u> </u>	-					
	\			-		-				
@ EP Tox	ug/L	ļ	<1	<1	ļ					
	0		ļ 	ļ		-				
@EP TOX	ug/L		0.9	0.4	<u> </u>					
	10,	<u> </u>	-			 				
PD FP TOX	Jug/L		<1	2						
	10		ļ	<u> </u>		·				
Mn			-	-						
				 	-					
		 	ļ		-	-				
	<u> </u>	<u> </u>				-				
						<u></u>			<u> </u>	<u></u>

NOTE: Dissolved Metals: Those that will pass through a 0.45 μ membrane filter

Suspended Metals: Those retained by a 0.45 μ membrane filter Total Metals: Those found in the unfiltered, rigorously acid digested sample

mg/L= ppm = /ug/ml /ug/L= ppb = ng/ml

mg/kg = ppm · µg/gm µg/kg = ppb = ng/gm

"<" is "less than" and ">" jis "greater than"

SUMMARIZED BY ECY 040-2-32 (a)

Rev. 8/81

	State of Washington
.4	Washington
	Department of Ecology
	of Ecology

ENVIRONMENTAL LABORATORY DATA SUMMARY METALS

	
ORIGINAL TO: LAB FILES	
Ned Therien	

				METAL	5						•••
SOURCE Mark											
DATE COLLECTED)	-22-	- 85 RECE	IVED 12	<u>-17-</u> 85	COLLECT	TED BY	<u>Ne</u>	dTI	rerie	<u>n</u>	
Sample (Log) Number	Units	Standard Deviation	51 7133	51 7134							
Station:		± %	NCT 093	NCT 096							
EP TOX	49/2		0.06	0.06							
(AS) FP Tox	العال		126	ا							
	0										
@ EP Tox	ug/L		6	4							
	10		ļ							-	
& EP TOX	ey/L		100	910							
	1		,								
A9 EP TOX	My/L		∠0.1	<0.1							
	-		<u> </u>			·					
Na	-			 					 		
									:		
K	-										
	-	-	-								
Ca	-		<u> </u>	ļ							
	ļ	-	<u> </u>	 							
			 	<u> </u>							
	 	-		 							

NOTE: Dissolved Metals: Those that

Those that will pass through a 0.45 μ membrane filter

Suspended Metals: Those retained by a 0.45 μ membrane filter

Total Metals: Those found in the unf

Those found in the unfiltered, rigorously acid digested sample

mg/L= ppm = μg/ml mg/kg = ppm = μg/gm μg/L= ppb = ng/ml μg/kg = ppb = ng/gm

"<" is "less than" and ">"is" greater than

SUMMARIZED BY Walu

DATE 3/18/86

REVIEWED BY Jan (My DATE 3/18)

ECY 040-2-32 (c) Rev. 8/81 State of Washington Department of Ecology

OLYMPIA ENVIRONMENTAL LABORATORY

DATA SUMMARY

agit Co.-March Pt. Landsill

PAGE	 OF	<i>1</i>

ORIGINAL TO: LAB FILES

TVED THEYICA

SUZANNE Milham

DATE COLLECTED 12/1	11/85			COLLE	CTED BY_	N	ed I	herie	<u>'n</u>	
Sample (Log) Number 51		2130	7131	7132						
Station:	7129 NGT 091	NCT 092	7131 NCT 094	NCT 095						
pH (units)										
Turbidity (NTU)										
Sp. Conductivity (umhos/cm)										
COD										
BOD (5 day)										
Fecal Coliform (Col./I00 ml)										
NO3-N										
NO2-N										
NH3-N										
T. Kjeldahl-N										
O-P04-P										
Total PhosP										
Total Solids										
Total Non Vol. Solids										
Total Suspended Solids		-								
Total Non Vol. Sus. Solids										
Phenolics	.030	.005	-010	.020						
metals w	116	en	CARONI	Ed	REPA	rate	ly			· .
			0							

ECY 040-2-32 Rev. 9/81

NOTE: All results are in mg/L(ppm) unless otherwise specified. ND is "None Detected"

"<" is "Less Than" and ">" is "Greater Than"

SUMMARIZED BY

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RIGH

Laurey Street. Seattle. Washington 98108 (206) 767-5060



Invoice

Chemistry. Microbiology, and Technical Services

Washington State Dept. of Ecology Manchester Laboratory P.O. Box 346 Manchester, WA 98353 INVOICE NO. 94389

DATE February 7, 1986

ORDER NO. F000972

TO PROFESSIONAL SERVICES

Skagit County March pt

For Analysis of WATER/SOIL \$2,630.00

Net 30 Days

The liability of these laboratories for the services covered by this invoice shall in no event exceed the amount of this invoice. Sample discarded after analysis unless otherwise requested.







Chemistry, Microbiology, and Technical Services

CLIF'T: Mashington State Dept. of Ecology

Manchester Lateratory

P.O. Pox 346

Manchester, MA 68353

LADCRATORY NO. 94399

PATE: Feb. 7, 1986

P.C. #FC00972

DEPORT OF: MATER/SOIL

CALDIE

IOF!'TIFICATIO!':

Submitted 12/17/05 and identified as shown below:

TESTS PEPFOPLED A'D PESULTS:

Mater Samples

1)	UCTO91	"arch	Pt.	Landfill	12/11/85	1.	Therien,	S.	inthan
2)	11CTO92	rarch	P+.	Landfill	12/11/85	1'.	Therien,	S.	litham
31	I'CTOSA	l'erch	Pt.	Landfill	12/11/25	1.	Therien,	S.	"itham
1.)	HCTOSE			Lanofill					
F.)	Transport Wank								

Spil Samples

F)	MCT093	March	Pt.	Landfill	12/11/85	11.	Therien,	S.	Mitham
7)	ИСТО96	March	Pt.	Landfill	12/11/85	1.	Therien,	5.	Mitham

Samples were analyzed for priority pollutants in accordance with Test Nethods for Evaluating Solid Maste, (SM-SAC), U.S.E.P.A., 1992, Methons 8240 (volative organics), and 8270 (semi-volatile extractables).

TIVIES	parts p	er hillion	(uc/L)
Volatile Organics (by CC//S)	1	?	3
Chloromethane Bromomethane Vinyl Chloride Chloroethane	L/1. L/1. L/1. L/1.	L/1. L/1. L/1. L/1.	L/1. L/1. L/1.







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PACE 110. 2

Washington State Dept. of Ecology

LABORATORY NO. 94389

WATER	parts r	er tillion	(ua/L)
Volatile Organics (by GC/PS)	1	2	3
Methylene Chloride	Tracel	Trace1	Tracel
Acrolein	L/5.	L/5.	L/5.
*Acetone	8.	Tracel	L/1.
Acrylonitrile	L/5.	L/5.	L/5.
*Carbon Disulfice	1/1.	L/1.	1/1.
1,1-Dichloroethylene	L/1.	1/1.	1/1.
1,1-Dichloroethane	1./1.	1/1.	1/1.
trans-1,2-Pichloroethylene	1/1.	L/1.	1./1.
Chloroform	L/1.	1/1.	1./1.
*2-Butanone	L/1.	1/1.	1/1.
1,2-Pichlornethane	L/1.	1./1.	1./1.
1,1,1-Trichloroethane	1/1.	1/1.	L/1.
*Vinyl Acetate	L/1.	L/1.	1/1.
Bromogichloromethane	L/1.	1/1.	L/1.
Carbon Tetrachloride	1/1.	L/1.	L/1.
1.2-Dichloropropane	L/1.	L/1.	1/1.
Trichloroethylene	L/1.	L/1.	L/1.
Penzene	L/1.	L/1.	1/1.
Chlorodibromomethane	L/1.	1/1.	L/1.
1,1,2-Trichloroethane	L/1.	L/1.	L/1.
2-Chloroethyl vinyl ether	L/1.	L/1.	L/1.
Promoform	L/1.	L/1.	L/1.
*C-l'ethyl-2-pentanone	L/1.	L/1.	L/1.
*?-llexanone	L/1.	1/1.	1/1.
1,1,2,2-Tetrachloroethane	L/1.	L/1.	1./1.
Tetrachloroethylene	L/1.	1/1.	L/1.
Toluene	1/1.	L/1.	L/1.
Chlorobenzene	1/1.	L/1.	L/1.
trans-1,3-Dichloropropene	1/1.	L/1.	L/1.
Ethylpenzene	L/1.	L/1.	1/1.
cis-1,2-Pichloropropene	1/1.	1./1.	L/1.
Styrene .	1/1.	L/1.	1/1.
o-Yylene	L/1.	L/1.	1./1.
0-7 y 10110	L/ = •	L/1 .	1./1 •







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PAGE NO. 3 LADOPATORY NO. 94389

MATER	parts per billion (uo/L)					
Volatile Organics (by GC/MS)	À	5	Methon Blank			
Chloremethane	L/1.	L/1.	L/1.			
Proponethane	1./1.	1./1.	L/1.			
Vinyl Chloride	1/1.	L/1.	L/1.			
Chloroethane	1./1.	L/1.	1/1.			
Methylene Chloride	Trace1	Tracel	Tracel			
Acrolein	L/5.	L./5.	L/5.			
*Acetone	0.	δ.	Tracel			
Acrylonitrile	L/E.	L/5.	L/F.			
*Carbon Disulfine	L/1.	L/1.	L/1.			
1,1-Dichloroethylene	L/1.	L/1.	1/1.			
1,1-Dichloroethane	L/1.	1/1.	1/1.			
trans-1,2-Dichloroethylene	1./1.	L/1.	L/1.			
Chloroform	L/1.	L/1.	1./1.			
*2-Eutanone	L/1.	L/1.	L/1.			
1,2-Dichloroethane	1/1.	L/1.	L/1.			
1,1,1-Trichloroethane	1/1.	L/1.	1/1.			
*Vinyl Acetate	1./1.	L/1.	L/1.			
Eromodichloromethane	L/1.	L/1.	L/1.			
Carbon Tetrachloride	1./1.	1./1.	1/1.			
1,2-Dichloropropane	L/1.	L/1.	L/1.			
Trichloroethylene	1/1.	L/1.	1./1.			
Penzene	13.	L/1.	L/1.			
Chlorodibromomethane	L/1.	L/1.	1/1.			
1,1,2-Trichloroethane	1/1.	L/1.	1/1.			
2-Chloroethyl vinyl ether	1/1.	L/1.	1/1.			
Promofera	1/1.	L/1.	1./1.			
*4-Nethyl-2-pentanone	L/1.	1/1.	1/1.			
*2-Hexanone	Tracel	L/1.	L/1.			
1,1,2,2-Tetrachloroethane	1/1.	L/1.	1/1.			
Tetrachloroethylene	1/1.	1./1.	L/1.			
Toluene	L/1.	1/1.	1./2.			



Testing Laboratories, Inc. 940 South Harney St., Seattle, Washington 98108 (206)767-5060



Certificate

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Mashington State Dent. of Ecology

PACE 10. 4

LAROPATORY MO. 94389

MATER	parts p	er billion	n (ua/L)
Volatile Organics (by CC/IS)		5	Method Blank
Chlorobenzene	Trace1	L/1.	L/1.
trans-1,3-Dichloropropene	1/1.	L/1.	L/1.
Ethylbenzene	1./1.	L/1.	L/1.
cis-1,3-Dichloropropene	L/1.	L/1.	1/1.
Styrene	L/1.	L/1.	1/1.
o-Xylene	Trace1	L/1.	1/1.

SOIL		narts per billion (uo/ko)		
Volatile Organics (by CC/MS)	Sedement!	sheam	neas	hord Method Blank
Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride	strom Sed	L/5. L/5. L/5. L/5.	L/5. L/5. L/5. L/5. 3200.	L/1. L/1. L/1. Trace?
Acrolein *Acetone Acrylonitrile *Carbon Disulfide	Weash Sed	L/25.	L/25. 1100. L/25. L/5.	L/25. Trace2 L/25. L/5.
1,1-Dichloroethylene 1,1-Dichloroethane trans-1,2-Dichloroethylene Chloroform *2-Butanone		L/5. L/5. L/5. Trace L/5.	L/E. L/E. L/E. L/E.	L/5. L/5. L/5. L/5.







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Vashington State Dept. of Ecology

PACE 10. 5 LAPODATORY 10. 04389

SGIL	parts pe	parts per billion (uo/ho)			
Volatile Oreanics (by GC/US)	Show	reash.	Method Elank		
1,2-Dichloroethane	L/5.	L/5.	L/5.		
1,1,1-Trichloroethane	L/5.	L/5.	L/5.		
*Vinyl Acetate	1.75.	L/5.	L/5.		
<pre>!romonichloromethane</pre>	L/F.	L/5.	L/5.		
Carbon Tetrachlorine	1./5.	L/5.	L/5.		
1,2-Pichloropropane	L/5.	L/5.	L/F.		
Trichloroethylene	Trace	1/5.	L/F.		
Senzene	1/5.	L/5.	L/5.		
Chlorodipromomethane	1.75.	L/5.	L/5.		
1,1,2-Trichloroethane	1.75.	L/5.	L/5.		
2-Chloroethyl vinyl ether	L/5.	L/5.	L/5.		
Bromoform	L/F.	L/5.	L/5.		
*/-/ethy1-2-pentanone	1./5.	L/5.	L/5.		
*2-Fexanone	L/E.	1/5.	L/5.		
1,1,2,2-Tetrachloroethane	1./5.	L/5.	L/5.		
Tetrachloroethylene	L/5.	L/5.	L/5.		
Toluene	Trace	51.	L/5.		
Chlorobenzene	1/5.	L/5.	L/5.		
trans-1,3-Dichleropropene	L/5.	L/5.	1_/5.		
Ethylbenzene	L/5.	L/5.	L/5.		
cis-1,3-Dichloropropene	1.75.	1.75.	L/5.		
Styrene	L/5.	L/5.	L/F.		
o-Xylene	1.75.	L/5.	L/5.		



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LAPOPATORY NO. 94389

Mashington State Dent. of Ecology

SOIL	parts per billion (we/ke)		
Extractables (by GC/MS)		7	Method Blank
M-nitrosodimethylamine	L/50.	L/50.	L/50.
Dis(2-chloroethyl)ether	1.750.	L/50.	L/50.
2-Chlorophenol	L/FO.	L/50.	L/50.
Pheno1	L/50.	L/50.	L/50.
1,3-Dichlorobenzene	L/50.	L/50.	L./50.
1,4-Dichlorobenzene	L/EO.	L/50.	L/50.
1,2-Dichlorohenzene	L/50.	L/50.	1/50.
Bis(2-chloroisopropyl)ether	1.750.	L/50.	L/50.
Pexachloroethane	L/50.	L/50.	L/50.
M-nitrose-di-n-propylamine	L/50.	L/50.	L/50.
l'itrobenzene	L/50.	L/50.	L/50.
Isophorone	1/50.	L/50.	L/50.
2-l'itrophenol	L/80.	L/50.	L/50.
2,4-Fimethylphenol	L/50.	L/50.	L/50.
Bis(2-chloroethoxy)methane	L/50.	L/50.	L/50.
2,4-Dichlorophenol	L/50.	L/50.	L/50.
1,2,4-Trichlorobenzene	L/50.	L/50.	L/50.
l'aphthalene	L/50.	L/50.	L/50.
Pexachloroputadiene	L/50.	L/50.	L/50.
4-Chloro-m-cresol	L/50.	L/50.	L/50.
Hexachlorocyclopentagiene	L/50.	L/50.	L/FO.
2.4.6-Trichlorophenol	1/50.	L/50.	L/50.
2-Chloronaphthalene	1.750.	L/50.	L/50.
Acenaphthylene	L/50.	L/50.	L/50.
Dimethylphthalate	L/50.	L/50.	L/50.
2,6-Cinitrotoluene	L/50.	1/50.	L/50.
Acenaphthene	L/50.	L/50.	L/50.
2,4-Dinitrophenol	1 L/50.	L/EC.	1./50.
2,4-Dinitrotoluene	L./FO.	L/50.	1.750.
4-Nitrophenol-	L/50.	L/50.	1./50.



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P/OF MO. 7 LABORATORY MO. 94389

Extractables (by CC/MS)	parts	parts per hillion (uo/ko)		
	c	11798	Methor Blank	
Fluorene	L./50.	L/50.	L/50.	
4-Chlorophenyl phenyl ether	L/50.	L/50.	L/50.	
Ciethylphthalate	L/50.	L/50.	L/50.	
4,6-Cinitro-o-cresol	L/50.	L/50.	L/50.	
1,2-Diphenylhydrazine	L/50.	L/50.	L/50.	
4-Promophenyl phenyl ether	L/50.	L/50.	L/50.	
Pexachlorobenzene	L/50.	L/50.	L/50.	
Pentachlorophenol	L/50.	L/50.	L/50.	
Phenanthrene	L/FO.	L/FO.	L/50.	
Anthracene	L/50.	L/50.	1/50.	
Oibutylphthalate	1.750.	1.750.	L/50.	
Fluoranthene	L/50.	50.	L/50.	
Pyrene	L/FC.	L/50.	L/50.	
Penzidine	L/50.	L/50.	L/50.	
Putyl benzyl phthalate	L/50.	L/50.	L/50.	
Penzo(a)anthracene	L/50.	L/50.	L/50.	
Chrysene	L/50.	L/50.	L/50.	
3,3'-Dichlorobenzidine	L/50.	L/50.	L/50.	
Bis(2-ethylhexyl)phthalate	1.750.	69	62.	
Pi-n-octyl phthalate	L/50.	L/50.	660.	
Eenzo(h)fluoranthene	L/50.	L/50.	L/50.	
Renzo(k)fluoranthene	L/50.	L/50.	L/50.	
Penzo(a)pyrene	L/50.	L/50.	L/FO.	
Indeno(1,2,3-cd)pyrene	L/50.	1/50.	L/50.	
Pipenzo(ah)anthracene	L/50.	L/50.	L/50.	
Benzo(chi)perylene	L/50	L/50.	L/50.	
*Aniline	1/50.	1./EQ.	L/50.	
*Benzoic Acid	L/50.	1/50.	L/50.	
*Cenzyl Alcohol	L/50.	L/50.	L/50.	
*4-Crioroaniline	L/50.	L/50.	L/60.	



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LABORATORY NO. 94389

-	-	numbers.		

Extractables (by GC/MS)	6	7	Methor Blank
*Bihenzofuran	L/50.	L/50.	L/50.
*2-Methylnaphthalene	L/50.	L/50.	L/50.
*2-Methylphenol	L/50.	L/50.	L/50.
*4-Methylphenol	1.750.	L/50.	L/50.
*2-!!itroaniline	L/50.	L/50.	L/50.
*3-Mitroaniline	1.750.	L/50.	L/50.
*4-!!itrnaniline	L/50.	L/50.	L/50.
*2,4,5-Trichlorophenol	L/50.	L/50.	L/50.

Key

L/ indicates "less than"

* indicates additional compounds from the EPA's Mazardous Substances List.

Tracel indicates an unquantifiable amount between 1-5 uo/L.

Trace2 indicates an unquantifiable amount between 5-25 uo/kg.

Respectfully submitted,

parts per billion (uo/kg)

Laucks Testing Laboratories, Inc.

J. H. Owens

J110: Dr



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PACE 10. 9

LAPORATORY NO. 94389

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APPELIDIY A

Surrocate Recovery Cuality Control Peport

Listed below are surrogate (chemically similar) compounds utilized in the analysis of volatile and organic compounds. The surrogates are added to every sample prior extraction and analysis to monitor for matrix effects, purging efficiency, and sample processing errors. The control limits represent the 95% confidence interval established in our laboratory through repetitive analysis of these sample types.

,	-	-	-
	- 1	ja i	. 6
	. 1		

rarts per hillion (ma/L)

Sammle Mo.	Surrocate Compound	Spike Level	Spike Found	Recovery	Control Limit
"ethoc Dlank	d4-1,2-Dichloroethane	50.0	52.9	106.	77-120
	d8-Toluene	50.0	00.0	98.9	26-119
	p-Bromofluorobenzene	50.0	51.3	103.	25-121
1	04-1,2-Dichlornethane	50.0	47.0	95.8	77-120
	dA-Toluene	50.0	48.7	97.4	86-119
	p-Promofluorobenzene	50.0	40.9	99.9	85-121
2	d4-1,2-Dichloroethane	50.0	49.0	0.39	77-120
-	d8-Toluene	50.0	48.5	97.0	86-119
	p-Promofluorobenzene	50.0	50.2	100.	85-121
2	d4-1,2-Dichloroethane	50.0	42.8	85.7	77-120
	d0-Toluene	50.0	47.5	95.9	26-110
	p-Eromofluorobenzene	50.0	52.5	105.	85-121
۵	d4-1,2-Dichlorcethane	50.0	48.6	97.2	77-120
	d8-Toluene	50.0	48.2	96.5	26-110
	p-Bromofluorobenzene	50.0	49.8	99.7	85-121
5	d4-1,2-Dichloroethane	50.0	60.7	00.5	77-120
	dC-Toluene	50.0	48.2	26.4	26-110
	p-Promofluorobenzene	50.0	51.0	102.	85-121



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Washington State Dept. of Ecology

LABORATORY NO. 94309

APPENDIX - continued

SOIL

parts per billion (uo/ko)

Sample No.	Surrogate Compound	Spike Level	Spike Found	Recovery	Control Limit
Tethod Blank	c4-1,2-Dichlorcethane	50.0	50.2	100.	50-160
	c2-Toluene	50.0	50.5	101.	50-160
	p-Bromofluorobenzene	50.0	51.1	102.	50-130
6	n4-1,2-hichloroethane	291.	254.	87.5	50-160
	n9-Toluene	291.	281.	96.6	50-160
	n-Promofluorobenzene	291.	293.	101.	50-160
7	d4-1,2-Dichloroethane	1000.	885.	99.5	50-150
	d8-Toluene	1000.	942.	94.2	50-160
	p-Bromofluorobenzene	1000.	1040.	104.	50-160
Pethod Plank	2-Fluorophenol o5-Phenol 2-Bromophenol o5-Hitrobenzene 2-Fluorobiphenyl o1C-Azebenzene 2,4,6-Tribromophenol o14-p-Terphenyl	100. 100. 100. 50. 50. 50.	70.6 62.9 60.8 35.3 37.7 42.5 99.9 37.5	70.6 82.9 62.8 70.5 75.3 84.9	25-121 24-113 59-97 23-120 30-115 19-122 18-137







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LAROPATORY NO. 94389

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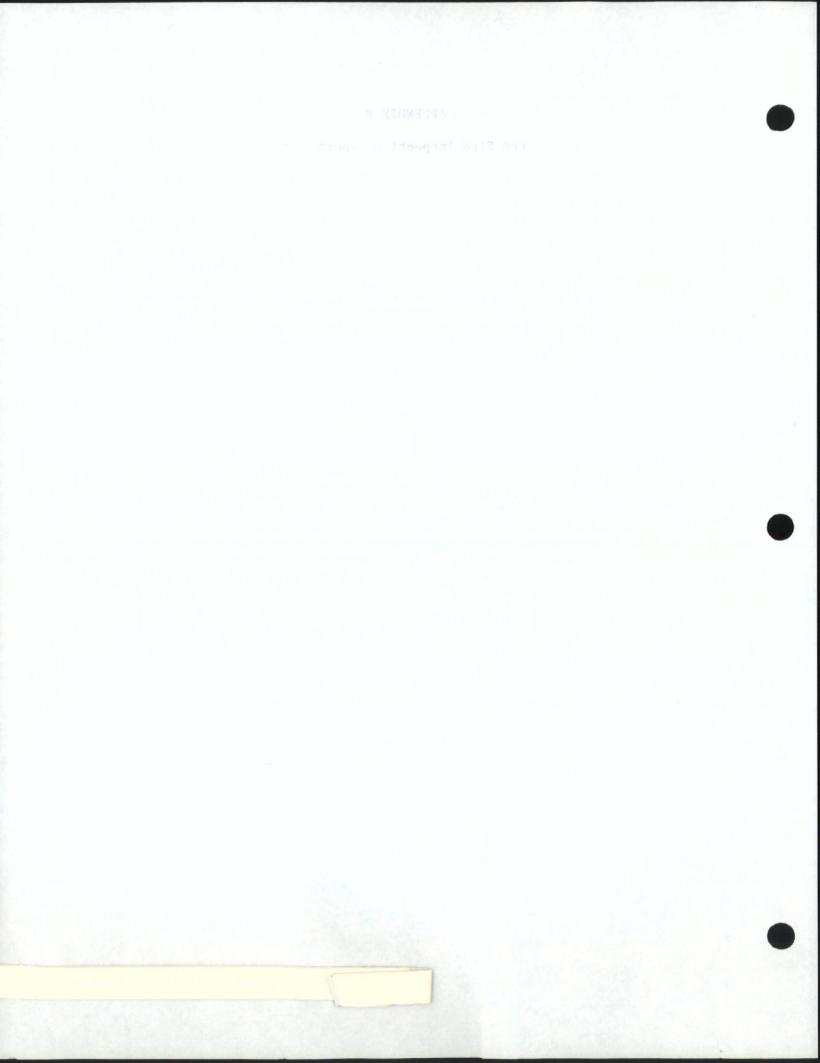
APPFUDIY - continued

	parts per billion (vo/ka)				
Sample No. Surrogate Compound		Spike Found	% Recovery	Control Limit	
2-Fluorophenol d5-Phenol 2-Dromophenol d5-Mitrobenzene	100. 100. 100. 50.	61.5 74.7 69.8 31.3	61.5 74.7 69.8 62.6	25-121 24-113 59-97 23-120 30-115	
d10-Azobenzene 2,4,6-Tribromophenol d14-p-Terphenyl	50. 100. 50.	37.0 04.7 29.0	74.0 94.7 56.0	19-122 18-137	
2-Fluorophenol d5-Phenol 2-Bromophenol c5-Uitrobenzene 2-Fluorobithenyl d10-Azobenzene 2,4,6-Tribromophenol	100. 100. 100. 50. 50. 100.	55.8 63.3 56.9 29.7 31.7 34.3 73.7	55.8 63.3 56.9 59.3 63.3 68.5 73.7	25-121 24-113 59-97 23-120 30-115 19-122	
	2-Fluorophenol d5-Phenol 2-Bromophenol d5-Hitrobenzene 2-Fluorobiphenyl d10-Azobenzene 2,4,6-Tribromophenol d14-p-Terphenyl 2-Fluorophenol d5-Phenol 2-Bromophenol c5-Uitrobenzene 2-Fluorobiphenyl d10-Azobenzene 2,4,6-Tribromophenol	Spike Level	Spike Spike Spike Level Found	Spike Spike Spike Spike Surrogate Compound Level Found Recovery	



APPENDIX B

EPA Site Inspection Report Form





POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION

1	I. IDENTIFICATION						
	O1 STATE	02 SITE NUMBER D980638944					

II. SITE NAME AND LOCATION	<u> </u>				
O1 SITE NAME (Legal common, or descriptive name of site)		02 STREE	T, ROUTE NO., OR SPE	ECIFIC LOCATION IDENTIFIER	
Skagit Co. March Point Landfil	1			0 - March Point	
Anacortes		WA	98221	Skagit	07COUNTY 08 CONG COSE DIST 057 02
48 527 51 0 122 31 45 0	O TYPE OF OWNERSH A. PRIVATE F. OTHER	□ B. FE		C C STATE D COUNTY	
III. INSPECTION INFORMATION OF DATE OF INSPECTION O2 SITE STATUS	03 YEARS OF OPERAT	ION			
12 / 12 / 85 ☐ ACTIVE			1 1973 R ENDING YEAR	UNKNOWN	,
04 AGENCY PERFORMING INSPECTION (Check all that apply) □ A. EPA □ B. EPA CONTRACTOR	Name of firm)	□ C. ML	JNICIPAL 🗀 D. MI	JNICIPAL CONTRACTOR	(Name of firm)
I	vame of tirm)	□ G. OT	HER	(Spec-ty)	
05 CHIEF INSPECTOR	06 TITLE			07 ORGANIZATION	08 TELEPHONE NO.
Suzanne Milham	Environ	nenta	list	Ecology 11 ORGANIZATION	(206) 459-6319
Ned Therien		4 . 1	12.4	_	12 TELEPHONE NO.
Ned Therren	Environ	<u>nen ta</u>	I 1 S T	Ecology	N/A
					()
	·				()
		·			()
					()
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	1	SADDRESS		16 TELEPHONE NO
Ken Willis	Inspecto	or N	1t. Vernon,	2nd & Kinkaid	206, 336-9400
					()
					()
				· · · · · · · · · · · · · · · · · · ·	()
					()
				,	()
17 ACCESS GAINED BY 18 TIME OF INSPECTION .: (Check one)	19 WEATHER COND			· · · · · · · · · · · · · · · · · · ·	
□XPERMISSION 11:00 a - 5:00 □ WARRANT	p Sunny 3	85° F	Clear		
IV. INFORMATION AVAILABLE FROM	02 OF (Agency Organi	******			03 TELEPHONE NO.
Suzanne E. Milham			Joan		
54 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	Washingto		ANIZATION	07 TELEPHONE NO.	(206) 459-6319
Suzanne E. Milham	Ecology		State	(206) 459-631	3 /26 /86 ·

Euch.		PA	Ó
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

O1 STATE | 02 SITE NUMBER | WA | D980638944

	<i>I U</i>		PART 2 - WAST	E INFORMATION		MA DOO	0030344
II. WASTE ST	TATES, QUANTITIES, AN	D CHARACTER	ISTICS				
	TATES (Check all that apply)	02 WASTE QUANT		03 WASTE CHARACTE	RISTICS (Check all that at	osly!	
X: A SOLID II B POWDER III C SLUDGE	☐ E. SLURRY R FINES ☐ F. LIQUID E ☐ G. GAS	must be	t waste quantities independent Unknown Unknown	L A TOXIC C E SOLUBLE C I HIGHLY VOLATILE D. B. CORRUSIVE C F INFECTIOUS C J EXPLOSIVE C G. RADIGACTIVE C G. FLAMMABLE C K. REACTIVE D. PERSISTENT C H. IGNITABLE L L. INCOMPATIBLE			SIVE IVE
: D OTHER			Unknown	U. FENSIS	EINT - R 13N11)	M. NOT A	
	(Specity)	NO. OF DRUMS -					
III. WASTE T	YPE		.				
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE				Environmen	tal release	data from
OLW	OILY WASTE	-			12/12/85 in	nspection sh	owed slight
SOL	SOLVENTS				offshore se	ediment cont	amination
PSD	PESTICIDES				with Toluer	ne 5/ppb and	Flouran-
occ	OTHER ORGANIC CH	HEMICALS			thene 50 nu	ob. It is u	nknown if
IOC	INORGANIC CHEMIC	ALS				mination cam	
ACD	ACIDS					r another so	
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (See AG	opendix for most trequent	Is cited CAS Numbers				
01 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
					· · · · · ·		CONCENTRATION
							
			 		····		<u> </u>
							
			1				+
	4		 	ļ			
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						ļ	
	<u> </u>		<u> </u>		<u> </u>		ļ <u></u>
				<u> </u>	·		
					_ · 		
V. FEEDSTO	OCKS (See Appendix for CAS Numb	e(5)		·		·	· · · · · · · · · · · · · · · · · · ·
CATEGORY			02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FDS				FDS			or one individual
				 			:
FDS			 	FDS FDS	 		
			 				
FDS	0.05 (NEO23442:2::	· · · · · · · · · · · · · · · · · · ·	<u> </u>	FDS		 	L
VI. SOURCE	S OF INFORMATION (Cite	specific references, e.g.	, state fres, sample anarysis.	reports)			
Site In	Site Inspection by Ecology 12/12/86.						

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1.	IDEN	FICATION
01	STATE	02 SITE NUMBER 944

. Altro Decommination	TALATICO CONDITIONS AND	O INCIDENT.	·	
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)				
01 TxJ. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
None known or suspected				
01 XK. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species:	02 🗆 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
None known or suspected				
01 EXL. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:	}	☐ POTENTIAL	☐ ALLEGED
None known or suspected				
01 CXM. UNSTABLE CONTAINMENT OF WASTES	02 🖸 OBSERVED (DATE:		□ POTENTIAL	□ ALLEGED
(Sbit Runoff: Standing liquids, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	•		
Surfacing leachate on East side of waste.	landfill was sampled	and did	not contain	hazardous
01 N DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
None known or suspected				
01 XO. CONTAMINATION OF SEWERS, STORM DRAINS, WWT	Ps 02 DBSERVED (DATE:	1	_ POTENTIAL	☐ ALLEGED
No sewers in area.				
01 XP. ILLEGAL'UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 🗇 OBSERVED (DATE:		T POTENTIAL	□ ALLEGED
This site was a nonconforming, unre	egulated public dump.			
os description of any other known, potential, or al Ecology sampling on 12/12/85 show This could not be directly relate	ed only slight contar	mination nce it wa	of offshore as not found	sediment. in leachate
III. TOTAL POPULATION POTENTIALLY AFFECTED:	0			
IV. COMMENTS				
There appears from 12/12/85 sampl waste problems associated with th	ing results to be li ne future of this land	ttle if a	any potentia	l hazardous
V. SOURCES OF INFORMATION (Cité specific reférences e. p., state h	'es sample analysis, reports)			
Foology 12/12/05 Cits Issues to				
Ecology 12/12/85 Site Inspection 1984 Preliminary Assessment USEPA				

& EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER D980638944

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II. HAZARDOUS CONDITIONS AND INCIDENTS			
	02 COBSERVED (DATE:) TOTAL	
03 POPULATION POTENTIALLY AFFECTED:U	04 NARRATIVE DESCRIPTION		□ ALLEGED
Groundwater samples taken during a 12	2/12/85 Site Inspection	by Ecology show	ed no con-
tamination in groundwater samples. (Groundwater is shallow	<10 feet. There	are no
drinking water wells downgradient fro	om the site.		
01 X B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 TOBSERVED (DATE 04 NARRATIVE DESCRIPTION) □ POTENTIAL	☐ ALLEGED
A small stream runs along the SW side the landfill was detected there during	ng 12/12/85 Ecology Ins	contamination at pection. Offsho	tributed to re Padilla
Bay water samples showed no contamina	ation.		
01 X: C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: 0	02 C OBSERVED (DATE:) ☐ POTENTIAL	□ ALLEGED
None known or suspected.			
The information of Suspension.			
01 X: D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 TOBSERVED (DATE:04 NARRATIVE DESCRIPTION)	☐ ALLEGED
No known certified fire/explosion the	reat.		
01 X; E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 DOBSERVED (DATE:) □ POTENTIAL	□ ALLEGED
Site is now covered. Leachate is sur	· · · · · · · · · · ·	et to contain ha	
materials by Ecology 12/12/85 sampling	Tacing but was shown h	oc to contain na	zardous
mader rats by Leorogy 12/12/05 Samptri	19.		
	·		
G1 X. F. CONTAMINATION OF SOIL 20	02 T OBSERVED (DATE 04 NARRATIVE DESCRIPTION) ☐ POTENTIAL	☐ ALLEGED
The landfill is approximately 20 acre	es in size. Offshore s	ediment samples	showed slight
contamination with toluene, and flour	ranthene. These are no	t directly attri	butable to
the landfill.		- arrasig was, in	
01 D. G. DRINKING WATER CONTAMINATION 03 PUPULATION POTENTIALLY AFFECTED: 0	02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION	·	□ ALLEGED
None known or suspected. Nearest we	ell is 2500 ft. upgradi	ent to the south	and is
owned by USGS. Two Skagit County PUI) secondary wells are w	ithin a mile wes	t and
upgradient.			
01 TH WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: 0	02 G OBSERVED (DATE:) POTENTIAL	☐ ALLEGED
100 WORKERS POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION		•
None reported or suspected			:
01 X I. POPULATION EXPOSURE/INJURY	02 G OBSERVED (DATE:) □ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None known or suspected.			



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENT	TRICATION
C1 STATE	D980638944

II. PERMIT INFORMATION						
01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE IS	SSUED	04 EXPIRATION DATE	05 COMMENTS	
C A. NPDES						
☐ B. UIC				-		
⊡ C. AIR						
D. RCRA		<u> </u>				
E. RCRA INTERIM STATUS						
☐ F. SPCC PLAN						
☐ G. STATE (Specify)						·
☐ H. LOCAL (Specify)		J				
☐ I. OTHER (Specify)						
±XJ. NONE						
III. SITE DESCRIPTION		-				
01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT 03 UNIT OF	MEASURE	04 TF	EATMENT (Check all that a	pply;	05 OTHER
A. SURFACE IMPOUNDMENT			□ A.	INCENERATION .		
□ B. PILES			ţ	UNDERGROUND INJ	ECTION	☐ A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND			□ c .	CHEMICAL/PHYSICA	L	None
D. TANK, ABOVE GROUND			ļ	BIOLOGICAL		06 AREA OF SITE
☐ E. TANK, BELOW GROUND	Unknown		1	WASTE OIL PROCES SOLVENT RECOVER		UO ANEX OF SITE
E G. LANDFARM			l .	OTHER RECYCLING		20(Acres)
T H. OPEN DUMP				OTHER		
I I. OTHER			1	(Spe	ecifyi	
C7 COMMENTS						
		·				
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES (Check one)						
☐ A. ADEQUATE, SECURE	B. MODERATE	□ C. II	VADEQ	JATE, POOR	☐ D. INSECUE	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, I						
There is a dike along does not prevent leach	the eastside of nate from reachi	the l ng the	andf bay	ill and Pad	illa Bay.	This dike
V. ACCESSIBILITY	•	_		····		
G1 WASTE EASILY ACCESSIBLE: YE	s ⊒хио					
Leachate is draining i	nto Padilla Bay	. No	haza	rdous waste	was detec	cted in this.
VI. SOURCES OF INFORMATION (Cate s	pecific references, e.g. state files, same	ore analysis, rep	orts;			
Ecology 12/12/85 Site	Inspection Repo	rt.				

E'h	ens p	7./3
F. C.	100 E	2
Sail F	direct in	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION U1 STATE D2 SITE NUMBER

Sect Summer Land Miles	PART 5 - WATER, L	DEMOGRAPHI	C, AND ENVIRO	RMERTAL	.DATA LWA		44
II. DRINKING WATER SUPPLY							
01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS			03	B DISTANCE TO SITE	
SURFACE	WELL	ENDANGERE	D AFFECTED	ОТІИСМ	RED		
COMMUNITY A.	B. □	A. 🗆	В. □	C. I	i	(mi)	
NON-COMMUNITY C. □	D. 🔀	D. 🗀	E. 🗅	F. X	В	(mi)	
III. GROUNDWATER							
C1 GROUNDWATER USE IN VICINITY (Check	one.						
I. A. ONLY SOURCE FOR DRINKING	ZB DRINKING (Other sources available) COMMERCIAL, INDU (No other water sources a		Limited other	LIAL, INDUSTE r source; availad	NAL IRRIGATION	□ D NOT USED, UNUSE	ABLE
02 POPULATION SERVED BY GROUND WAT	TER 10,000		03 DISTANCE TO NE	AREST DRINK	ING WATER WELL	1 (mi)	
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUN	DWATER FLOW	06 DEPTH TO AQUIFE	R 97 PO	TENTIAL YIELD	08 SOLE SOURCE AQ	UIFER
<u>(10)(60)</u> (ff)	East		of concern 65	1	AQUIFER (gpd)	□ YES 🖳	NO
to the West. Wells			11 DISCHARGE AREA				
☐ YES COMMENTS	ins to saltwat	ter	© YES COMM		s on Padil	la Rav	
IV. SURFACE WATER			Luin	<u> </u>	3 011 1 4411	та рау	
01 SURFACE WATER USE/Check one)	······································		······································			· · · · · · · · · · · · · · · · · · ·	
A. RESERVOIR: RECREATION DRINKING WATER SOURCE	☐ B. IRRIGATION. IMPORTANT		□ с сомме	RGIAL, INDU	ISTRIAL X:	D. NOT CURRENTLY	USED
02 AFFECTED POTENTIALLY AFFECTED BO	DDIES OF WATER						
NAME:					AFFECTED	DISTANCE TO SITE	
Padilla Bay					<u>*</u>	0	(ml)
				·	2 _	- 	(mi) (mi)
V. DEMOGRAPHIC AND PROPERT	VINEODMATION						
01 TOTAL POPULATION WITHIN	THORMATION		·	D2 D/STANS	DE TO NEAREST POPU	II 4T/OH	
	NO (2) MILES OF SITE	U	MILES OF SITE			(mi)	
03 NUMBER OF BUILDINGS WITHIN TWO (2)	MILES OF SITE	1	04 DISTANCE TO NE	AREST OFF-SI		mi)	•
C5 POPULATION WITHIN VICINITY OF SITE	Provide narrative description of nar	ure of population within	nomity of site, e.g., roral, vill	age. cersely cod			

This site is located in an industrialized, rural area. The Swinomish indian reservation is to the South. There are approximately 10,000 people within 3 miles including workers. The area is not densly populated with permanent residences.



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

Į	I. IDENT	IFICATION
	OT STATE	02 SITE NUMBER D980638944

(mi)

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA VI. ENVIRONMENTAL INFORMATION O1 PERMEABILITY OF UNSATURATED ZONE (Check one) ☐ A. 10⁻⁶ - 10⁻⁶ cm/sec ☐ B. 10⁻⁴ - 10⁻⁶ cm/sec ☐ X.C. 10⁻⁴ - 10⁻³ cm/sec ☐ D. GREATER THAN 10⁻³ cm/sec 02 PERMEABILITY OF BEDROCK (Check one) **X** B. RELATIVELY IMPERMEABLE ☐ C. RELATIVELY PERMEABLE ☐ D. VERY PERMEABLE 100-2 - 10-4 cm sec) ☐ D. VERY PERMEABLE 100-2 - 10-4 cm sec) A. IMPERMEABLE (Greater than 10 = cmrsec) 04 DEPTH OF CONTAMINATED SOIL ZONE 03 DEPTH TO BEDROCK 05 SOIL pH >100 40 approx. Unknown 06 NET PRECIPITATION 07 ONE YEAR 24 HOUR RAINFALL 08 SLOPE SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE 27 2 East 25 09 ELOOD POTENTIAL 10 🖹 SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY __ YEAR FLOODPLAIN 11 DISTANCE TO WETLANDS (5 acre minimum) Padilla Bay 12 DISTANCE TO CRITICAL HABITAT (of endangered species) **ESTUARINE** 0 OTHER **ENDANGERED SPECIES:** . (mi) 13 LAND USE IN VICINITY DISTANCE TO: RESIDENTIAL AREAS; NATIONAL/STATE PARKS. AGRICULTURAL LANDS PRIME AG LAND COMMERCIAL/INDUSTRIAL FORESTS. OR WILDLIFE RESERVES AG LAND

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

1/8

This landfill is in a filled-in area of the Padilla Bay Shoreline. Padilla Bay is off of March Point which is on Fidalgo Island. Fidalgo Island and Padilla Bay are in Puget Sound. The landfill is located in a highly industrialized rural area with Texaco and Shell refineries and Allied Chemical Companies being within 3/4 of a mile. The landfill is at the base of a bluff and adjacent to highway 20 on the west side. The Swinomish indian reservation is to the south across Highway 20 from the landfill.

0

VII. SOURCES OF INFORMATION (Cité specific references, e.g., state fires, semple analysis, reports)

Site Inspection, Ecology 12/12/85 USEPA, 1984 Preliminary Assessment

C	PERE	
10	- 150	Set / Unit
C. P.		F Y 7

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION						
WA STATE	C2 SITE NUMBER D980638944					

C Least Carl	P	ART 6 - SAMPLE AND FIELD INFORMATION	WA IDS	180638944
II. SAMPLES TAKEN				
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	Laucks and Manchester		03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	1	Environmental Lab		2/86
SURFACE WATER	2	·		
WASTE	n		<u></u>	
AIR				
RUNOFF				
SPILL	·			
SOIL	2			
VEGETATION				
OTHER	<u> </u>		;	
III. FIELD MEASUREMENTS TAI	KEN			
01 TYPE	02 COMMENTS			
	None			
				·
IV. PHOTOGRAPHS AND MAPS				
OF TYPE IXGROUND I AERIAL		O2 IN CUSTODY OF EPA and ECO logy (Name 2: 0:29an; siron c: moi: 2vah.		
03 MAPS G4 LOCATION X YES	OF MAPS ECO	logy		
□ NO ———				· · · · · · · · · · · · · · · · · · ·
V. OTHER FIELD DATA COLLEC	OTED (Provide natrative de	scriptioni		
Observations were	noted in a	field notebook.	•	
			•	
		•		
				·
VI. SOURCES OF INFORMATION				
ECOLOGY Site Insp	ection 12/12	2/85 and REport 3/86.		

		 				
Si. PROTECT E		POTENTIAL HAZARDOUS WASTE SITE			ICATION 22 SITE NUMBER	
		SITE INSPE	SITE INSPECTION REPORT			
Chambi Z B		PART 7 - OWN	IER INFORMATION	D980638944		
II. CURRENT OWNER(S)		· · · · · · · · · · · · · · · · · · ·	PARENT COMPANY (" applicable,			
01 NAME		02 D+B NUMBER	OB NAME	· · ·	09 D+B NUMBER	
WA Dept. of Natural	Resource	s WAD9806389	44			
03 STREET ADDRESS (F.O. Box = FO #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #. etc.)		11 SIC CODE	
Sixth Avenue						
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
Olympia,	WA	98504				
01 NAME		02 D+B NUMBER	08 NAME		09 D+8 NUMBER	
					•	
03 STREET ADDRESS (F.C. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.;		11 SIC CODE	
05 CITY	06 STAT	E 07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
			İ			
01 NAME		02 D+B NUMBER	CB NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box. RFD +. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #. etc.)		11 SIC CODE	
					1	
05 CITY	06 STATI	E 07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
	ļ	1	•			
01 NAME		C2 D+B NUMBER	OB NAME		09D+B NUMBER	
•		1				
03 STREET ADDRESS:F.O Fox, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P O Box. RFD +, etc.		11 SIC CODE	
05 CITY	06 STAT	E 07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
III. PREVIOUS OWNER(S) :List most re	ent lirst,		IV. REALTY OWNER(S) (If applicable institute	est recent first!	<u> </u>	
O1 NAME		02 D+B NUMBER	O1 NAME		02 D+B NUMBER	
03 STREET ADDRESS % 0 800, FED 4, etc.		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.		04 SIC CODE	
·						
05 CITY	06 STATE	E 07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
		1				
01 NAME		02 D+B NUMBER	01 NAME	, 	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box. RFD +, etc.)	 	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATI	E 07 ZIP CODE	05 CITY	O6 STATE	07 ZIP CODE	
ĺ	1				}	

92 D+B NUMBER

06 STATE 07 ZIP CODE

04 SIC CODE

03 STREET ADDRESS (P.O. Box, RFD P. etc.)

02 D+B NUMBER

06 STATE 07 ZIP CODE

04 SIC CODE

EPA 1984 Preliminary Assessment

V. SOURCES OF INFORMATION (Cité specific relevences, e.g., state files, sample analysis, reports)

03 STREET ADDRESS (F.O. 60x RFD #. etc.)

01 NAME

P. 1	سحا	P 1	Q.
P	थक	. est. /	Ĩ,
W.L		i <i>6</i>	_/

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION
CONSTATE CONSTRUCTION
WA D980638944

PART 8			PART 8 - OPERA	TOR INFORMATION	WA	_ WA D980638944		
II. CURRENT OPERATO	R (Em. regressages one	n o wear!	***	OPERATOR'S PARENT COMPA	NV			
01 NAME	The second of the second secon		02 D+B NUMBER	10 NAME	IN T (H abbicable)	11 D+B NUMBER		
Same as Owne	r					I I I I I I I I I I I I I I I I I I I		
Same as Owner 03 STREET ADDRESS (F. 0. 66)	RFD * et;		04 SIC CODE	12 STREET ADDRESS (P. G. Box, RFD +, etc.)	13 SIC CODE		
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER	<u>i</u>	-					
III. PREVIOUS OPERATO	OR(S) (List most recent for	rs!. provide only	d different from owner:	PREVIOUS OPERATORS' PARE	NT COMPANIES			
01 NAME	1-7		02 D+B NUMBER	10 NAME		11 D+B NUMBER		
D3 STREET ADDRESS (P O. Box. RFD *, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box RFD *. etc.	, , , , , , , , , , , , , , , , , , ,	13 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER (DURING THIS	PERIOD					
01 NAME	<u> </u>		02 D+B NUMBER	10 NAME		11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box	, RFD #. etc.)	<u></u>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RED F. etc.))	13 SIC CODE		
O5 CITY	 	Los etetel	D7 ZIP CODE					
03 01.1		DESTATE	U/ ZIP CODE	14 CITY	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THIS	FERIOD					
01 NAME	-,	1	02 D+B NUMBER	10 NAME		11 D+5 NUMBER		
03 STREET ADDRESS (P.O. Box	, RED *, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box. RFD #, etc.,	,	13 SIC CODE		
OF OTTY		laa ar irrl						
05 CITY		US STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE		
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THIS	PERIOD					
IV SOURCES OF INFO	DAMA TION							
IV. SOURCES OF INFOR	WIATION (Cité specific	c references, e.	g., state files, sample analys	sis. reports)		<u> </u>		

	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION		I. IDENTIFI	3980638944	
II. ON-SITE GENERATOR					
) NAME		02 D+B NUMBER			
None					
3 STREET ADDRESS (P.O. Box RFC + etc.)		04 SIC CODE			
5 CITY	06 STATE	07 ZIP CODE			
III. OFF-SITE GENERATOR(S)	<u> </u>	·			· · · · · · · · · · · · · · · · · · ·
D1 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
33 STREET ADDRESS (F.O. Box. AFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD * . etc.)		04 SIC CODE
D5 CITY	06 STATE	07 ZIP CODE	05 CITY .	06 STATE	07 ZIP CODE
DI NAME		02 D+B NUMBER	D1 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD *, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
	Inc state	Los and cons	Los OTA	loe STATE	07 7/D CODS
US CITY	UGSTATE	07 ZIP CODE	05 CITY	00 STATE	07 ZIP CODE
IV. TRANSPORTER(S)	<u>l</u>	L		1	<u> </u>
21 NAME		C2 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (# O. Box. RFJ • . etc.)		04 SIC CODE	03 STREET ADDRESS (F.O. Box. RFD *, etc.)		04 SIC CODE
DE CITY .	06 STATE	07 ZIP CODE	05 CITY	O6 STATE	07 ZIP CODE
P1 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD * . etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD *, etc.)		04 SIC CODE
D5 CITY	06 STATE	67 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION ICHE	and the setoranean	a a state files campus analys	is condition	<u></u>	
V. SOUNCES OF THE CHINA HON TENE	specific references.	e.g., state mes, sample analys	is, (eports)		·

102300 102300 142303	D
-	_ ~ ~
	1250) 1250) 1477)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
O1 STATE 02 SITE NUMBER
WA D980638944

Chamb Com	PART 10 - PAST RESPONSE ACTIVITIES		WA D980638944
II. PAST RESPONSE ACTIVITIES			
00 A WATER SUPPLY CLOSED	02 DATE	C3 AGENCY	
No			
01 X B TEMPORARY WATER SUPPLY PROVIDE	ED 02 DATE	03 AGENCY	···-
04 DESCRIPTION	•		
No	ED 02 DATE		
04 DESCRIPTION	ED UZ BATE	03 AGENCY	
No	02 DATE		·
01 💢 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
No			
01 ₩ E. CONTAMINATED SOIL REMOVED	O2 DATE	03 AGENCY	
04 DESCRIPTION			
NO 01 ⊋ F. WASTE REPACKAGED	O2 DATE	. OZ AGENICY	
04 DESCRIPTION	UZ DATE	. US AGENCT	
No			
01 G. WASTE DISPOSED ELSEWHERE O4 DESCRIPTION	02 DATE	03 AGENCY	
No			
01 Ѯ H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY	Public Works
Site was a municipal landfi	11 1950-1973		
01 X I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION NO	•		
01 X J. IN SITU BIOLOGICAL TREATMENT	O2 DATE	D3 AGENCY	
04 DESCRIPTION No			
01 X K, IN SITU PHYSICAL TREATMENT	02 DATE	O3 AGENOV	
04 DESCRIPTION	UZ BAIL	C3 AGENCT	
No			
01 🕱 L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY	
No			
01 🔀 M EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
•	•		
No 01 ⋤ N. CUTOFF WALLS	02 DATE	03 AGENCY	
04 DESCRIPTION NO			-
01 EF O. EMERGENCY DIKING/SUHFACE WATER 04 DESCRIPTION	DIVERSION 02 DATE	03 AGENCY	
No	·		
01 ₹ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	
No			
01 X Q. SUBSURFACE CUTOFF WALL	02 DATE	03 AGENCY	
04 DESCRIPTION			
No			

6.45			
------	--	--	--

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION			
O1 STATE	02 SITE NUMBER D980638944		

OF best H U	PART 10 - PAST RESPONSE ACTIVITIES	III BSCCCCS 1
II PAST RESPONSE ACTIVITIES (Continued)	· · · · · · · · · · · · · · · · · · ·	
01 X R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
A dike was constructed in 1	973	
01 🖔 S. CAPPING/COVERING 04 DESCRIPTION	. 02 DATE	03 AGENCY
	used to cover the landfill.	
01 ፟X T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
No		
01 X U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
No STATEM SEALED	02 DATE	00.1001/07
01 % V. BOTTOM SEALED 04 DESCRIPTION	U2 DATE	03 AGENCY
No 01 v. gas control	02 DATE	03 AGENCY
04 DESCRIPTION	UZ DATE	03 AGENOT
No.	02 DATE	03 AGENCY
01 文 X FIRE CONTROL 04 DESCRIPTION		03 AGENUY
No		
01 💢 Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
No		
01 😿 Z. AREA EVACUATED 04 DESCRIPTION	. 02 DATE	03 AGENCY
No	02 DATE	03 AGENCY
01 X 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DA:E	U3 AGENC1
NO CT ▼ 2. POPULATION RELOCATED	02 DATE	03 AGENCY
04 DESCRIPTION	VE 01.11	00 /\dai\dai\dai\dai\dai\dai\dai\dai\dai\dai
NO 01 💢 3. OTHER REMEDIAL ACTIVITIES	02 DATE	03 AGENCY
04 DESCRIPTION	<u> </u>	33 / 32 / 3
No remedial activities have sampling showed no need for	taken place at this site. Eo remedial actions.	clogy site inspection
	•	
•	•	
III. SOURCES OF INFORMATION (Creespecial felec	erces e.g. state nes sample analysis reports)	
Faller Site Improvious 12/	(12 /05	
Ecology Site Inspection 12/		



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

ON STATE OF SITE NUMBER 980638944

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION THE YES X NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

There has been no enforcement action taken at this site. This landfill was closed in 1973 by the Public Works Department in Anacortes.

III. SOURCES OF INFORMATION (Cne specific references, e.g., state files, sample analysis, reports)

Preliminary Assessment, 1984, EPA Ecology NWRO Files

APPENDIX C

Photographic Documentation

All photographs were taken by Suzanne Milham on December 12, 1985, during the Ecology site inspection at the March Point Landfill, Anacortes Washington. A Cannon Sureshot camera using ASA 100, 35 mm film with automatic focus and light settings was used.

Ned Therien is shown here with the bailer used to collect sample NCT091. The surroundings of NW Concrete Company's barrow pit can be seen in the backgroundl The gravel and sand soils can also be seen in this photograph.

Sample NCTO91: N.W. Concrete
Barrow pit, filled with groundwater. Across the street from
the landfill and upgradient. The
surface of the water was frozen
and the samples were bailed from
between the cracks in the ice.





NCTO92 and NCTO93: Samples were taken of water and sediment at the SW edge of the landfill from an estuarial stream which flows to Padilla Bay. The surface of the water was frozen over with 1 inch of ice.



Sample NCT094: was taken of water 3 feet off shore on the East side of the landfill off of the rock dike. Sample was collected by bailing the water. There was a visible oily sheen present on the water.

Sample NCT096 was taken of the marine sediments immediately off shore from the landfill on the east side in Padilla Bay. There was an apparent rust color to the top 2-3 inches of sedim ment. This sample was collected using a stainless steel trier.





Sample NCT095 was taken of the leachate/seepage which was flowing from the landfill through the dike into Padilla Bay. This sample was taken from the East side of the landfill close to where sample NCT094 was collected.

APPENDIX D

Site Sampling Plan

SKAGIT COUNTY - MARCH POINT LANDFILL ANACORTES, WASHINGTON

SITE INVESTIGATION SAMPLING PLAN

NOVEMBER 1985

Prepared by

Suzanne E. Milham Washington State Department of Ecology

Site Sampling Plan Summary

	of Highway 20 - March Point tes, WA 98221	
NE 1/4	, Section 3, T34N, R2E, WM	
Proposed Date	of Investigation:	
Preparer: Su	zanne E. Milham	
Reviewed by:	De de la Contraction de la Con	
	Project Officer, EPA	Date
	Site Inspection Team Leader	Date
	Site Inspection Team Member Health and Safety Coordinator	Date

Site: Skagit County - March Point Landfill

I. INTRODUCTION

The purpose of this plan is to detail the program of site investigation sampling activities to be carried out by the Ecology PA/SI team at the Skagit County - March Point Landfill.

II. SITE DESCRIPTION AND WASTE CHARACTERISTICS

This site is an old landfill located in the tidelands owned by the Washington Department of Natural Resources. This site was used since 1950 as a public dump. It is unknown what waste types or quantities other than municipal wastes were disposed of. Four major chemical industries are located on March Point near the landfill and have been in business as long as the fill has been there. Leachate has been documented and is surfacing from the landfill.

III. OBJECTIVES

Samples of leachate, soil, and possibly groundwater will be taken to determine if contamination is present.

IV. SAMPLE COLLECTION/ANALYSIS PARAMETERS

Two water samples will be taken in the gravel pit to the west of the site and in the ditch on the southwest side of the fill. A third water sample will be taken from an upgradient, background well if available.

Three soil samples will be taken, one in the marshy area downgradient in the fill, one from the center of the fill, and one in an upgradient area representative of background.

Samples will be analyzed for heavy metals, chlorinated hydrocarbons, volatile organics and phenolics.

Sample splits will be made available to the Department of Natural Resources if requested.

Equipment List

EQUIPMENT

USE

Sample Containers

Appropriate to analyses desired (see Table)

Sample Preservatives

See Table

Field Blanks

See Table

Keys

For locked monitoring wells.

Pipe wrenches

May be necessary to remove steel security cap on wells which have not been recently opened and sampled.

USE

Tape measure

Use to measure diameter of well casing above ground level.

Electronic water level indicator/graduated depth sounder

Used to determine static water level and total depth of well.

Pocket Calculator

Use for static water volume calculations.

Pump

Use to purge or evacuate well prior to obtaining sample; it is not a recommended means to obtain a sample.

Sampling Trier

Collect soil samples at depths of up to several feet below surface.

Stainless Steel Mixing Bowl

Composite soil samples.

Stainless Steel Spoons

Soil sample collection.

Teflon Well Bailer

A bailer is a device which is lowered into a well to obtain water samples.

Monofilament Line

Use for lowering bailer into well; should be of sufficient strength to hold full bailer and overcome any resistance between well casing and bailer. The use of any other type of line is not recommended. Steel wire might be an appropriate substitute but can cause handling problems for personnel wearing gloves.

Decontamination solutions/water (Methanol)

Use for decontaminating sampling equipment, bailer, and water level indicator between samples.

Plastic pails, graduated

Use for measuring volume of water taken from well prior to sampling.

Thermometer

Use to measure temperature of ground-water.

Field logbook

Used to record field observations.

Camera/film
Sample tags
Chain-of-custody records
Receipt for sample forms
Waterproof ink pen

Use to document sampling procedure.

Compass

Determine pH of samples

pH Meters - soil and water

Department of Ecology Chain of Custody Procedures

Background

These procedures were adopted for use by the Department of Ecology from those used by the EPA Region X Surveillance and Analysis Division. A documented record of sample handling is necessary for special studies involving compliance monitoring or other enforcement-related activities in which the data may be used in litigation. The evidence-gathering portion of a survey is characterized by the minimum number of samples required to give a fair representation of the effluent, or water body, air shed, or other media, from which they are taken.

The procedures described in this section represent the optimum method. The failure in any particular instance to follow one or more steps does not necessarily render evidence either inadmissible or unusable. Consequently, there should be no hesitancy to mention any deviation in procedure in any given case.

Definition of Custody

Chain of custody procedures are followed to establish sample possession from the time it is taken until the results are introduced as evidence into court. A sample is in your "custody" when:

- 1. It is in your actual physical possession.
- 2. It is in your view, after being in your physical possession.
- 3. It was secure beyond a reasonable doubt if not in your view.

Sample Collection

- 1. As few people as possible should handle the sample.
- 2. Preprinted sample tags are filled out in waterproof ink and attached to the sample container at the time the complete sample is collected. The tags contain, as a minimum, the following information: station identification, station location, date-time-type of sample (grab or composite), and initials of the sample collector and any observing witness. It is desirable that witnesses be present.
- 3. Blank samples, using distilled water with preservatives added, may be prepared at the time of sample collection and later analyzed to establish the lack of container or preservative contamination.
- 4. Bound Field Data Record logbooks with numbered pages are used to record field measurements and other pertinent information. These notes may be used to refresh the sampler collector's memory in the event he later takes the stand to testify regarding his actions during the evidence-gathering activity. Data entered in the logbooks are recorded with ballpoint pen or waterproof ink. Each page is signed by the sample collector and any available witnesses. Any errata in making entries should be lined out with a single line and then initialed.

- 5. The sample collector is responsible for the care and custody of the samples until properly dispatched to the receiving laboratory or turned over to an assigned custodian. The sample collector must assure that each container is in his physical possession or in his view at all times, or locked or sealed in such a place and manner that no one can tamper with it.
- 6. If colored slides, photographs, or other related evidence are obtained to show the impact of the pollutant or substantiate any other conclusions of the investigation, the following documentation is required on the back of each photo or in the Field Data Record Logbook: time, date, location of the photographer when taking the photo, film type, and the signature of the photographer and any witnesses.

Transfer of Custody and Shipment

- 1. Samples are accompanied by a chain of custody record which includes the name of the survey, sample collector's signature, number, and description of the samples. When turning over the possession of a part or all of the samples to a field analysis station or to a laboratory, the transferer and transferee will sign and record the time and date on the sheet.
- 2. All packages are accompanied by the sample custody record showing identification of the contents. The original accompanies the shipment, and a copy is retained by the survey coordinator. The chain of custody record is signed by the sample collector along with recording the date and time. It is then placed inside the shipping container.
- 3. Samples are carefully packed for shipment in suitable containers to avoid damage. The shipping containers are locked for shipment, or sealed in such a manner that the container cannot be opened without breaking the seal. This lock or seal is not removed until the shipping container is opened by the laboratory custodian or one of his alternates.
- 4. If sent by mail, the package is sent via Registered Mail with Return Receipt Requested. If sent by common carrier, all shipping receipts are retained as part of the permanent chain of custody documentation.

Laboratory Custody Procedures

- 1. Couriers picking up samples at the bus depot, post office, etc., sign and retain the shipping documents to acknowledge receipt of the samples.
- 2. All incoming samples are received only by the laboratory sample custodian or one of his alternates who indicate receipt by signing the chain of custody record accompanying the samples and retaining it as part of the permanent record. Samples are then logged into the laboratory and assigned a laboratory number.
- 3. The sample custodian or one of his alternates is responsible for the security of the samples in the laboratory. Samples are stored in locked or sealed refrigerators or cabinets with the keys to the locks held by the sample custodian or one of his alternates.

Field Measurements and Observations

The following field measurements and observations will be logged:

- 1) Measure the diameter of the well casings.
- 2) Note the casing materials (i.e., pvc, steel, etc.).
- 3) Available well log information noted.
- 4) Weather conditions, air temperature, sky conditions, etc.
- 5) Physical observable characteristics of water.
- 6) Observations about well characteristics.
- 7) Temperature of water before and after purging.

Groundwater Sampling Procedures

A clean Teflon bailer will be used to obtain water to fill sample containers. This bailer will be lowered into the well on a mono-filament nylon line. Care will be taken to avoid agitation, which may promote the loss of volatile constituents from the samples.

Soil Sampling Procedures

Surface soil will be removed with a shovel to a depth of 24". Soil samples will be collected with a specially cleaned stainless steel sampling trier, trowel or spoon at this level. Soil samples will be composited in pairs by mixing in a stainless steel bowl.

Decontamination Procedures for Sampling Equipment

After equipment such as the bailer is used for sampling, it will be decontaminated before being used to sample another location. This will prevent cross contamination.

Equipment will first be washed with soap and water solution; then rinsed with clean water.

After this, equipment will be rinsed with methanol and water mixture and then triple rinsed with deionized water and let to air dry.

- 4. Only the sample custodian or his alternates distribute samples to laboratory personnel who are to perform analyses. Laboratory personnel record in their laboratory notebook or analytical worksheet information describing t sample, the procedures performed and the results of the analyses. The notes shall be retained as a permanent record in the laboratory and should note any abnormalities or other significant observations about the samples or analyses.
- 5. Laboratory personnel are responsible for the care and custody of the sample once it is distributed by the sample custodian.
- 6. Once the sample analyses are completed, the unused portion of the samples, together with all identifying tags and laboratory records, are returned to the sample custodian. The returned tagged sample is retained in locked or sealed cabinets or refrigerators until it is required for trial.
- 7. Analytical results are checked and initialed by senior laboratory personnel. The original lab bench sheets are stored in the laboratory files.
- 8. Samples and tags are discarded only upon the order of the Laboratory Director, after conferring with appropriate personnel in the Enforcement Division or the Assistant Attorney General handling the case to make certain that these items are no longer needed.

APPENDIX E

Site Safety Plan

MARCH POINT LANDFILL ANACORTES, WASHINGTON

SITE SAFETY AND HEALTH PLAN

SEPTEMBER 1985

Prepared by

Suzanne E. Milham Washington State Department of Ecology

Site Safety Plan Summary

Site:	Skagit	County	March	Point	Landfill

North of Highway 20 March Point Anacortes, WA 98221

NE 1/4 Sec 3, T34N, R 2E WM

Preparer: Suzanne E. Milham

Reviewed by:		
	Project Officer, EPA	Date
	Site Inspection Team Leader	Date
	Site Inspection Team Member	Date

Type of Facility: This facility is an old landfill which may have received chemical wastes from nearby TEXACO, Shell, Allied Chemical, and NW Petrochemical Company.

Size of Area: Approximately 20 acres.

Land Use in Surrounding Area: This site is located in a rural area with industrial development to the north and west. These industries have been in business as long as the landfill has been in existence. The landfill is located in the tidelands at the bottom of a bluff. The Swinomish Indian Reservation is to the south across Highway 20.

Hazard Type: Direct contact, possible respiratory.

Waste Type: It is unknown what waste types or quantities other than municipal wastes. Four major chemical industries are located on March Point, west and north of the site. Texaco is known to have dumped unknown substances at this landfill.

Identified Wastes: Unknown: suspect industrial chemicals.

Factors Promoting Action: This inspection is being carried out under the Multi-Site Cooperative Agreement, Preliminary Assessment/Site Investigation program. This investigation will attempt to identify the presence, location and spread of hazardous materials at this site.

Sampling Plan: Two leachate, 2 groundwater and 2 soil samples will be taken. These samples will be analyzed for VOAs, phenolics, heavy metals, chlorinated hydrocarbons, and acid base neutrals.

Levels of Protection: Level D, Level C, if necessary. Professional judgment will be used in determining the adequacy of these protection levels.

Personnel: Inspection Coordinator: Ned Therien
WDOE Team Member: Suzanne Milham, Site Safety Coordinator
EPA Project Officer: Bob Kievit

Personnel Training: The inspection team leader and site safety coordinator have had formal EPA site inspection training as well as emergency first aid and CPR. WDOE site investigation team members are participants in the medical monitoring program.

Emergency Facilities and Telephone Numbers

Nearest Telephone:

Emergency Telephone

911

Police, Fire, Ambulance

Hospital:

St. Luke's General Hospital 809 Chestnut Street Bellingham, WA 98225 734-8300 or 354-5931

Site Description/History of Activities

This site is an old landfill located in tidelands owned by the Washington State Department of Natural Resources. This site has been used as a public dump since the 1950's and was operated by Skagit County public works department from 1961-73 when it was closed and covered. The site has naturally revegitated and leachate is surfacing, particularly on the eastern boundary.

The Shell and Texaco refineries, Allied Chemical sulfuric acid plant and Northwest Petrochemical are west and north of the site. These industries have operated for 30-40 years at these locations. It is considered highly likely that these industries took wastes to this fill because it was the largest and closest county dump when in operation.

Hazardous Substances Suspected On-Site/Assessment

Surface leachate indicates inadequate containment of waste materials. It is suspected that industrial wastes were buried at this site. Sampling activities will include down and upgradient wells and soil core collection.

Equipment Lists

I. Level D

- Tyvek coveralls or rain suits
- Neoprene steel toe and shank boots
- Chemical resistant gloves "Solvex"
- Safety goggles if necessary
- Hard hat
- Latex inner glove liners

II. Level C

- Air purifying full face respirator (MSHA NIOSH approved)
- Tyvek (Saranex if raining) coveralls
- Gloves (inner), latex chemical resistant
- Gloves (outer), chemical resistant- "Solvex"
- Boots, chemical resistant steel toe and shank
- Hard Hat
- Duct tape

Decontamination Procedures

I. Level D Decontamination

If soiled, Tyvek coveralls, and gloves will be placed in plastic bags and removed from the site for disposal. Boots will be washed with detergent and rinsed before leaving the site. If rain suits instead of Tyvek coveralls are used, soil will be rinsed off while they are still being worn and before the boots are washed.

II. Level C Decontamination

Station 1: Contaminated Equipment Drop

Equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) will be separated and deposited on plastic drop cloths. Each will be contaminated to a different degree. Segregation at the drop reduces the probability of cross-contamination.

Station 2: Boot and Glove Wash

Scrub boots and gloves with detergent/water solution.

Equipment: container (20-30 gallons)

detergent water

2-3 long-handle, soft-bristle scrub brushes

Station 3: Boot and Glove Rinse

Rinse off detergent solution from Station 2 using copious amounts of water. Repeat as necessary.

Equipment: container (30-50 gallons)

or

pressure spray unit

water

2-3 long-handle, soft-bristle scrub brushes

Station 4: Tape Removal

Remove tape around boots and gloves and deposit in plastic bag or container with plastic liner.

Equipment: plastic bag

or

container (20-30 gallons)

plastic liners

Station 5: Boot Removal

Remove boots, step onto clean dry plastic sheeting.

Station 6: Outer Glove Removal

Remove outer gloves and deposit in plastic bag or container with plastic liner.

Equipment: plastic bag

or

container (20-30 gallons)

plastic liners

Station 7: Coverall Removal

Remove coveralls and deposit in plastic bag or container with plastic liner.

Equipment: plastic bag

or

container (20-30 gallons)

plastic liners

Station 8: Facepiece Respirator Removal

Remove facepiece. Avoid touching face with gloves. Deposit facepiece in individual plastic bags. Decontaminate off of the site.

Equipment: plastic bags

Station 9: Inner Glove Removal

Remove inner gloves and deposit in a plastic bag or a container with plastic liner.

Equipment: plastic bag

or

container (20-30 gallons)

plastic liners

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SEPTEMBER 1985

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